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(FILE 'HOME' ENTERED AT 17:25:00 ON 05 JUN 2001)

FILE 'REGISTRY' ENTERED AT 17:25:08 ON 05 JUN 2001

L1 4 S CONJUGATED LINOLEIC ACID  
L2 3766 S OCTADECADIENOIC ACID  
L3 0 S L2 AND 9 CIS 11 TRANS  
L4 26 S L2 AND 9 CIS  
L5 9 S L4 AND 11 TRANS  
L6 14 S L2 AND 10 TRANS  
L7 6 S L6 AND 12 CIS

FILE 'CAPLUS, MEDLINE' ENTERED AT 17:43:18 ON 05 JUN 2001

L8 193 S 2540-56-9  
L9 0 S L8 AND MELTING POINT  
L10 1 S L8 AND MP  
L11 24 S L8 AND SYNTHESIS  
L12 5 S L8 AND NMR  
L13 5 DUPLICATE REMOVE L12 (0 DUPLICATES REMOVED)  
L14 101 S 2420-56-6  
L15 0 S L14 AND MELTING POINT  
L16 44 S L14 AND MP  
L17 2 S PURIFICATION AND L14  
L18 15 S L14 AND SYNTHESIS  
L19 15 DUPLICATE REMOVE L18 (0 DUPLICATES REMOVED)  
L20 2 S L19 NOT L11  
L21 3 S L8 AND ISOLAT? AND CHARACTER?

=> s l14 and isolat? and character?

L22 2 L14 AND ISOLAT? AND CHARACTER?

=> s l22 not l21

L23 0 L22 NOT L21

L11 ANSWER 20 OF 24 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1998:759222 CAPLUS

DOCUMENT NUMBER: 130:110075

TITLE: Chemoenzymic **Synthesis** of Conjugated  
Linoleic Acid

AUTHOR(S): Chen, Chien-An; Sih, Charles J.

CORPORATE SOURCE: School of Pharmacy, University of Wisconsin, Madison,  
WI, 53706, USA

SOURCE: J. Org. Chem. (1998), 63(26), 9620-9621

CODEN: JOCEAH; ISSN: 0022-3263

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The authors describe a chemoenzymic method for the **synthesis** of  
(9Z,11E)- and (10E,12Z)-octadecadienoic acids, the two most abundant  
conjugated linoleic acids found in foods.

REFERENCE COUNT: 24

REFERENCE(S):

(1) Ackman, R; Lipids 1977, V12, P293 CAPLUS

(2) Baillargeon, M; Appl Microbiol Biotechnol 1989,  
V30, P92 CAPLUS

(3) Berdeaux, O; J Am Oil Chem Soc 1997, V74, P1011  
CAPLUS

(4) Body, D; J Am Oil Chem Soc 1965, V42, P5 CAPLUS

(6) Chen, C; J Am Chem Soc 1982, V104, P7294 CAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT

11 ANSWER 19 OF 24 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1999:231222 CAPLUS  
DOCUMENT NUMBER: 130:267264  
TITLE: **Synthesis** of conjugated linoleic acid  
INVENTOR(S): Seidel, Michael C.  
PATENT ASSIGNEE(S): USA  
SOURCE: U.S., 13 pp.  
CODEN: USXXAM  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 3  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5892074	A	19990406	US 1997-800567	19970218
US 6153774	A	20001128	US 1999-283504	19990401
US 6160141	A	20001212	US 1999-283554	19990401
PRIORITY APPLN. INFO.:			US 1997-800567	A2 19970218

OTHER SOURCE(S): CASREACT 130:267264

AB A **synthesis** process for producing 9-cis,11-trans-octadecadienoic acid at room temp. in high yield is disclosed, including providing a tosylate or mesylate of a Me ester of ricinoleic acid and 9-cis,11-trans-octadecadienoic acid formed when the tosylate or mesylate reacts with diazabicycloundecene (DBU). In one aspect, the tosylate of the Me ester of ricinoleic acid is formed with tosyl chloride in a pyridine solvent. In one aspect, the mesylate of the Me ester of ricinoleic acid is formed with mesyl chloride in acetonitrile and tri-Et amine. In one aspect, the tosylate or mesylate is reacted with DBU in a polar, non-hydroxylic solvent of acetonitrile to form the preferred isomer of 9-cis,11-trans-octadecadienoic acid at room temp. in high yield.

REFERENCE COUNT: 8

REFERENCE(S): (2) Berdeaux; JAOCS 1997, V74(8), P1011 CAPLUS  
(3) Cook; US 5554646 1996 CAPLUS  
(5) Ha, Y; Cancer Research 1990, V50, P1097 CAPLUS  
(6) Ip, C; Cancer Research 1991, V51, P6118 CAPLUS  
(7) Ip, C; Cancer Research 1994, V54, P1212 CAPLUS  
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